FLIGHT

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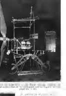
No. 78. (No. 20, Vol. III.) | [Registered at the G.P.O. as a Newspaper.] | [Weekly, Price 1d. Post Free 1½d.]

Mr. D. [illegible]

THE MARATHON OF THE AIR.

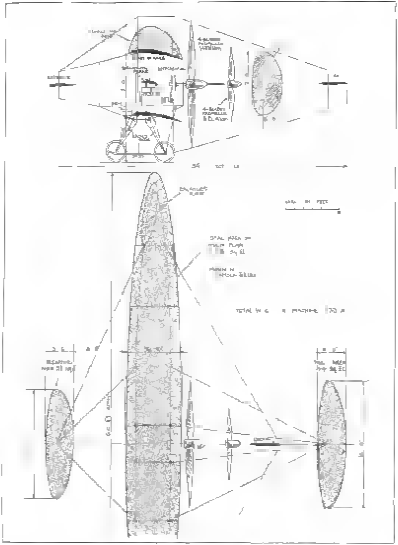
THE PIGGOTT BROS. BIPLANE.

[illegible]



[illegible]

[illegible]



THE BIGGIN BIPLANE. Plan and side elevation (to scale).

[illegible] of the [illegible] the Piggott [illegible] showing the [illegible] between the [illegible] shaft and the [illegible] and the [illegible] between the [illegible] and the propeller [illegible]

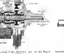
[illegible] arrangement of [illegible]. The [illegible] of the [illegible] is [illegible] from a set of [illegible] between the propellers and the [illegible].

[illegible] the [illegible] of the whole engine is [illegible]. These [illegible] but different [illegible].

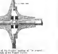
The propellers are driven by [illegible] the engine through a [illegible] gear [illegible] full load. The [illegible] of this differential gear is [illegible] by a sectional drawing. The [illegible] wheel, which is [illegible] to the [illegible] shaft [illegible]. This [illegible] engages with [illegible] carried by a [illegible] [illegible] propellers is [illegible].

[illegible] at different [illegible] planes drawn in different [illegible] planes for controlling lateral equilibrium. [illegible] main planes and supplementary [illegible] framework of aluminium. This framework [illegible]

The [illegible] of the two propellers. [illegible] be observed that [illegible] propeller [illegible] the propeller [illegible] [illegible]



Sectional drawing of the differential gear on the Piggott biplane.



Sectional sketch of the [illegible] of the propeller shafts on the Piggott biplane.

[illegible]

Sketch of [illegible] in the main plane of the [illegible] biplane.

[illegible]

[illegible]

SOME MODEL ACCESSORIES AND WHERE TO OBTAIN THEM

FLIGHT

BRITISH FLIGHT ENGINES.

THE ... DE HAVILLAND.

carried [illegible]. The ball-main-bearing [illegible] supported on [illegible] projecting [illegible] the lower king [illegible] the cylinders [illegible] [illegible] square [illegible] and of [illegible] All the [illegible] the valves are [illegible] [illegible]

Incidentally, [illegible] made of [illegible] treated with celluloid.

All the bearings are [illegible] the well-known Hoffmann ball type, [illegible] of ball [illegible]

Fig. 4. The sections and arrangement of the valves, of the [illegible] of the [illegible] and of the valve-operating gear [illegible] are clearly [illegible] in this [illegible] drawing.

Each pair of valves [illegible] a single pipe [illegible] [illegible]

[illegible] [illegible] [illegible]

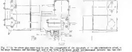


Fig. 5. In the above plan view may be seen the arrangement of the [illegible], of the intermediate wheel, of the large Hoffmann ball-bearings, and of the [illegible] between [illegible] as shown in the drawing.

[illegible] valve.

For convenience in dismantling, the carburettor [illegible] chamber by a single [illegible] against the carburettor proper by one [illegible]

[illegible] we need hardly remark that they [illegible] [illegible]

AN AEROPLANE SHED THAT FITS THE MACHINE.

Plan, front and side elevation of Mr. A. Mace's shed.

CRANK-SHAFTS FOR PETROL ENGINES

CONTINENTAL AVIATION MEETINGS.

The Lyons Meeting.

[illegible]

St. Petersburg Meeting.

[illegible]

Further Flying in St. Petersburg.

[illegible]

The Berlin Meeting.

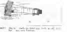
[illegible]

FLIGHT

BOOK REVIEWS.

"The Aeronautical Classics"

Flying Machines: Practice and Design



HALLEY'S COMET.

The Royal Aero Club of the United Kingdom

OFFICIAL NOTICES TO MEMBERS

Harlington.

[illegible]

Aviation Certificates.

[illegible]

Rules.

1. [illegible]

2. [illegible]

3. Before being allowed [illegible]

4. [illegible]

5. The Royal Aero Club [illegible]

6. [illegible]

7. [illegible]

8. [illegible]

9. The decision of the Committee of the Royal Aero Club [illegible]

[illegible]

Long Distance Balloon Race.

(Cup presented by the Hon. Mrs. Assheton Harbord.)

[illegible]

[illegible]

Library.

[illegible]

Aviation Lantern Slides.

The Royal Aero Club [illegible]

H. E. [illegible], Secretary.

166, Piccadilly.

Charles Stewart Rolls Testimonial Fund.

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]

PROGRESS OF FLIGHT ABOUT THE COUNTRY.

BRITISH NOTES OF THE WEEK

FOREIGN AVIATION AND AIRSHIP NEWS.

[illegible]

An Aerial Grand Prix.

[illegible]

A New French [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Aeroplane Factory at Turin.

[illegible]

[illegible] on a Warship.

[illegible]

Flying over Spain.

[illegible]

[illegible] Brothers [illegible]

[illegible]

M. [illegible] on the "bridge" of [illegible] "Clement-Bayard No. 2," [illegible] London.

Flying Progress in India.

From a Madras correspondent we learn that though there are several aeroplanes in India so far [illegible] Mr. De Bruyne, of Calcutta, [illegible] a [illegible] engine for a [illegible] [illegible]

[illegible]

"Christofferson" Gets Again.

[illegible]

[illegible]

"Vide de Pris" [illegible] to Paris.

[illegible]

[illegible] in the Church Academy.

[illegible]

CORRESPONDENCE.

*** The name and address of the writer (not necessarily for publication) MUST in all cases accompany letters intended for insertion, or containing queries.*

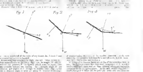
Correspondents making inquiries relating to articles which have been in FLIGHT, should [illegible] write [illegible] [illegible] the [illegible]

NOTE.—[illegible]

THE [illegible] ANGLE.

[1115] [illegible]

[illegible]



[illegible] as [illegible] of the [illegible] Coney Jn. I think I may [illegible]

[illegible]

[illegible] E. [illegible]

VACUUM [illegible].

[1116] [illegible]

THE SKIDS AND OTHER FEATURES OF THE MAYFLY

TESTING PILOTS

STARTING OF MONOPLANES AND PILOTLESS AIRCRAFT

[illegible]

FLAPPING-WING MACHINES.

[illegible]

ORNITHOPTERS.

[illegible]

MR. GRAHAME-WHITE'S FLIGHT.

[illegible]

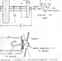
THE DAY MONOPLANE.

[illegible]

MODELS.

DESIGN FOR A MODEL.

[illegible]



[illegible]

models to be inclined slightly upwards. If the propeller ... a small angle is required. I [illegible] the model on an even keel.

Could any reader oblige me [illegible] No. 4 ... of Flight?

Coventry. [illegible]

GEARED PROPELLERS.

[illegible] I am extremely obliged for your ... correspondent ... should ... the principle.

... I hope ... the use of ... gearing ... in the Howard Wright ... [illegible]

... [illegible]

The diagram ... [illegible]

[illegible]

THE RIDLEY MODEL.

[illegible]

◎ ◎ ◎ ◎

Prize ... Fort ... Cup.

[illegible]

◎ ◎ ◎ ◎

NEW COMPANY REGISTERED

[illegible]

Bristol ... Ltd.

[illegible]

◎ ◎ ◎ ◎

PUBLICATIONS RECEIVED.

[illegible]

Aeronautical Patents Published

Published May 19th, 1910.

[illegible]

DIARY OF FORTHCOMING EVENTS.

British Events.

[illegible]

Foreign Events.

[illegible]

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[illegible]

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12 " " ...	[illegible]	[illegible]	12 " " ...	[illegible]	[illegible]

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